

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Flag-peptide GAD65 Sgf I IA2 Sgf I PPINS poly-his  
 DYKDDDDK-----KKKRRPRKKK-----KKKRRPRKKK-----CNGSHHHHHH

FIG. 1a

Flag-peptide GAD65 Not I IA2 Not I PPINS poly-his  
 DYKDDDDK-----KKKRRSRKKK-----KKKRRSRKKK-----CNGSHHHHHH

FIG. 1b

APPROVED	O.G.FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

IA2 Underlined aa 771-979 Accession No. L18983

MRRPRPGGLGGSGGLRLLCLLLSSRPGCSA VSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVQARPLLQVTSPVLQRL  
 QGVLRQLMSQGLSWHDDLTYVISQEMERIPRLRPEPRDRSGLAPKRPAGELLQDIPTGSAPAAQHRLPQPPVGKGG  
 AGASSLSPLQAEALLPLEHLLPPQPPHPSLSYEPALLQPYLFHQFGRDGSRVSEGSPGMVSVGPLPKAEAPALFSRTASKGI  
 FGDHPGHSYGDLPGPSAQLFQDSGLLYLAQELPAPSRARVPRLPEQSSSRAEDSPEGYEKEGLDGRGEKPA SPAVQPDAAAL  
 QRLAAVLAGYGVELRQLTPEQLSTLLTLQLLPGAGRNPGGVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPT  
 SSEVQQVPSVSSEPPKAA RPPVTPVLLLEKKSPLGQSQTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLLEILAEHVHMSS  
 GSFINISVVGPA LTFRIRHNEQNLSLADVTQAGLVKSELAQTGLQILQTGVGQREEAA VLPQTAHSTSPMRSVLLTLVALA  
 GVA GLLVALAVALCVRQHARQDKERLAALGPGEAGHDITFEYQDLCRQHMA TKS LFNRAEGPPEPSRVSSVSSQFSDDAAQ  
 ASPSSHSTPSWCEEP AQANMDISTGHMILA YMEDHLNRDRLAK EWQALCA YQAE PNTCATAQEGENIKNRHPDLPYDH  
 ARIKLKVESPSRSDYINASPIEHDPMPAYIA TOGPLSHITADFWMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGASLY  
 HVYEVNLYSEHIWCEDEFVRSFY LKNVQTOETRTLTOFHFLSWPAEGTPASTRPLLD FRRKVNKCYRGRSCPIIVHCSDGAGR  
 TGTYLIDMVLNRMAKGVKEIDIAATLEHVRDORPGLYRSKDQFEFALTA VAEV NAILKALPQ

FIG. 2a

GAD65 Underlined aa102-585 Accession No. M74826

MASPGSFWFSGSEDGSDSENPGTARAWCQVAQKFTGGIGNKL CALLYGD AEKPAESGSGSQPPRAAARKAACACDQKPCS  
 CSKVDVNY AFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSEDRSTKVDFHYPNELLQ EYNWELADQPONLEELMHC  
 QTTLKYAIKTGHPRYENQLSTGLDMVGLAADWL TSTANTNMFTYEIAPVFVLL EYVTLKKMREIIGWPGSGDGFSPGGAIS  
 NMYAMMIARFKMFPEVKEKGMAALPRLJAF TSEHSHFSLKKGAAALGIGTDSVILKCDERGMIPSDLE RRILEAKOKGFVPP  
 LVSATAGTTVYGAFDPLLA VADICKKYKIWMHVDAAWGGGLMSRKHKWKLSGVERANSVTWNPHKMMGVPLQCSALLY  
 REEGLMONCNQM HASYLFQODKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGTTGFEAHVDKCLEAEYL YNIIKNR  
 EGYEMVFDGKPOHTNVCFWYIPPSLRTLEDNEERM SRLSKVAPVIKARMMEYGTITMVSYOPLGDKVNFRRMVISNPAAATHQ  
 DIDFLIEEIERLGODL

FIG. 2b

Translation Human preproinsulin.  
 EMBL accession nr. v00565

MALWMRLLPLLALLALWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYT  
 PKTRREAEDLQVGQVELGGGPGAGSLQPLALEGSLQKRGIVEQCCTSICSLYQ  
 LENYCN

FIG. 2c

# Human GAD65 nucleotide sequence

M74826 Length: 2457 September 1, 1995 12:22 Type: N Check: 8038 ..

APPROVED	O.G.FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

366270" 66EST060

1 ACCCGCCCTC GCCGCTCGGC CCCGCGCGTC CCCGCGCGTG CCCTCCTCCC  
51 GCCACACGGC ACGCACGCGC GCGCAGGGCC AAGCCGAGGC AGCCGCCCCG  
101 AGCTCGCACT CGCTGGCGAC CTGCTCCAGT CTCCAAAGCC GATGGCATCT  
151 CCGGGCTCTG GCTTTTGGTC TTTCGGGTCG GAAGATGGCT CTGGGGATTC  
201 CGAGAATCCC GGCACAGCGC GAGCCTGGTG CCAAGTGGCT CAGAAGTTCA  
251 CGGGCGGCAT CGGAAACAAA CTGTGCGCCC TGCTCTACGG AGACGCCGAG  
301 AAGCCGGCGG AGAGCGGCGG GAGCCAACCC CCGCGGGCCG CCGCCCGGAA  
351 GGCCGCCTGC GCCTGCGACC AGAAGCCCTG CAGCTGCTCC AAAGTGGATG  
401 TCAACTACGC GTTCTCCAT GCAACAGACC TGCTGCCGGC GTGTGATGGA  
  
451 GAAAGGCCCA CTTTGGCGTT TCTGCAAGAT GTTATGAACA TTTACTTCA  
501 GTATGTGGTG AAAAGTTTCG ATAGATCAAC CAAAGTGATT GATTTCATT  
551 ATCCTAATGA GCTTCTCAA GAATATAATT GGAATTGGC AGACCAACCA  
601 CAAAATTTGG AGGAAATTTT GATGCATTGC CAAACAACCT TAAAATATGC  
651 AATTAAAACA GGGCATCCTA GATACTTCAA TCAACTTTCT ACTGGTTTGG  
701 ATATGGTTGG ATTAGCAGCA GACTGGCTGA CATCAACAGC AAATACTAAC  
751 ATGTTACCT ATGAAATTGC TCCAGTATTT GTGCTTTTGG AATATGTCAC  
801 ACTAAAGAAA ATGAGAGAAA TCATTGGCTG GCCAGGGGGC TCTGGCGATG  
851 GGATATTTTC TCCCGGTGGC GCCATATCTA ACATGTATGC CATGATGATC  
901 GCACGCTTTA AGATGTTCCC AGAAGTCAAG GAGAAAGGAA TGGCTGCTCT  
951 TCCCAGGCTC ATTGCCTTCA CGTCTGAACA TAGTCATTTT TCTCTAAGA  
1001 AGGGAGCTGC AGCCTTAGGG ATTGGAACAG ACAGCGTGAT TCTGATTAAA  
1051 TGTGATGAGA GAGGGAAAAT GATTCCATCT GATCTTGAAA GAAGGATTCT  
1101 TGAAGCCAAA CAGAAAGGGT TTGTTCCCTT CCTCGTGAGT GCCACAGCTG  
1151 GAACCACCGT GTACGGAGCA TTTGACCCCC TCTTAGCTGT CGCTGACATT  
1201 TGCAAAAAGT ATAAGATCTG GATGCATGTG GATGCAGCTT GGGGTGGGG  
1251 ATTACTGATG TCCCGAAAAC ACAAGTGGAA ACTGAGTGGC GTGGAGAGGG

FIG. 3a

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

8662FD-65EST060

1301 CCAACTCTGT GACGTGGAAT CCACACAAGA TGATGGGAGT CCCTTTGCAG  
 1351 TGCTCTGCTC TCCTGGTTAG AGAAGAGGGA TTGATGCAGA ATTGCAACCA  
 1401 AATGCATGCC TCCTACCTCT TTCAGCAAGA TAAACATTAT GACCTGTCTT  
 1451 ATGACACTGG AGACAAGGCC TTACAGTGCG GACGCCACGT TGATGTTTTT  
 1501 AAACATATGGC TGATGTGGAG GGCAAAGGGG ACTACCGGGT TTGAAGCGCA  
 1551 TGTTGATAAA TGTTTGGAGT TGGCAGAGTA TTTATACAAC ATCATAAAAA  
 1601 ACCGAGAAGG ATATGAGATG GTGTTTGATG GGAAGCCTCA GCACACAAAT  
 1651 GTCTGCTTCT GGTACATTCC TCCAAGCTTG CGTACTCTGG AAGACAATGA  
 1701 AGAGAGAATG AGTCGCCTCT CGAAGGTGGC TCCAGTGATT AAAGCCAGAA  
 1751 TGATGGAGTA TGGAACCACA ATGGTCAGCT ACCAACCCTT GGGAGACAAG  
  
 1801 GTCAATTCTT TCCGCATGGT CATCTCAAAC CCAGCGGCAA CTCACCAAGA  
 1851 CATTGACTTC CTGATTGAAG AAATAGAACG CCTTGGACAA GATTTATAAT  
 1901 AACCTTGCTC ACCAAGCTGT TCCACTTCTC TAGAGAACAT GCCCTCAGCT  
 1951 AAGCCCCCTA CTGAGAAACT TCCTTTGAGA ATGTGTGCGAC TTCACAAAAT  
 2001 GCAAGGTGAA CACCACTTTG TCTCTGAGAA CAGACGTTAC CAATTATGGA  
 2051 GTGTCACCAG CTGCCAAAAT CGTAGGTGTT GGCTCTGCTG GTCACTGGAG  
 2101 TAGTTGCTAC TCTTCAGAAT ATGGACAAAG AAGGCACAGG TGTAATATA  
 2151 GTAGCAGGAT GAGGAACCTC AAACCTGGGT TCATTTGCAC GTGCTCTTCT  
 2201 GTTCTCAAAT GCTAAATGCA AACACTGTGT ATTTATTAGT TAGGTGTGCC  
 2251 AAACCTACCGT TCCCAAATTG GTGTTTCTGA ATGACATCAA CATTCCCCCA  
 2301 ACATTACTCC ATTACTAAAG ACAGAAAAAA ATAAAAACAT AAAATATACA  
 2351 AACATGTGGC AACCTGTTCT TCCTACCAAA TATAAACTTG TGTATGATCC  
 2401 AAGTATTTTA TCTGTGTTGT CTCTCTAAAC CCAAATAAAT GTGTAAATGT  
 2451 GGACACA

FIG. 3b

# Human IA-2 nucleotide sequence

L18983 Length: 3613 November 20, 1997 16:45 Type: N Check: 6409 ..

APPROVED	O.G.FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

1 CAGCCCCTCT GGCAGGCTCC CGCCAGCGTC GCTGCGGCTC CGGCCCCGGA  
51 GCGAGCGCCC GGAGCTCGGA AAGATGCGGC GCCCGCGGCG GCCTGGGGGT  
101 CTCGGGGGAT CCGGGGGTCT CCGGCTGCTC CTCTGCCTCC TGCTGCTGAG  
151 CAGCCGCCCC GGGGGCTGCA GCGCCGTTAG TGCCACGGC TGTCTATTG  
201 ACCGCAGGCT CTGCTCTCAC CTGGAAGTCT GTATTACAGGA TGGCTTGTTT  
251 GGGCAGTGCC AGGTGGGAGT GGGGCAGGCC CGGCCCTTT TGCAAGTCAC  
301 CTCCCCAGTT CTCCAACGCT TACAAGGTGT GCTCCGACAA CTCATGTCCC  
351 AAGGATTGTC CTGGCACGAT GACCTCACCC AGTATGTGAT CTCTCAGGAG  
401 ATGGAGCGCA TCCCCAGGCT TCGCCCCCA GAGCCCCGTC CAAGGGACAG  
451 GTCTGGCTTG GCACCCAAGA GACCTGGTCC TGCTGGAGAG CTGCTTTTAC  
501 AGGACATCCC CACTGGCTCC GCCCTGCTG CCCAGCATCG GCTTCCACAA  
551 CCACCAAGTG GCAAAGGTGG AGCTGGGGCC AGCTCCTCTC TGTCCTCTT  
601 GCAGGCTGAG CTGCTCCCGC CTCTCTTGA GCACCTGCTG CTGCCCCAC  
651 AGCTCCCCA CCCTTCACTG AGTTACGAAC CTGCCTTGCT GCAGCCCTAC  
701 CTGTTCCACC AGTTTGGCTC CCGTGATGGC TCCAGGGTCT CAGAGGGCTC  
751 CCCAGGGATG GTCAGTGTG GCCCCCTGCC CAAGGCTGAA GCCCCTGCCC  
801 TCTTCAGCAG AACTGCCTCC AAGGGCATAT TTGGGGACCA CCCTGGCCAC  
851 TCCTACGGGG ACCTTCCAGG GCCTTCACTT GCCCAGCTTT TTCAAGACTC  
901 TGGGCTGCTC TATCTGGCCC AGGAGTTGCC AGCACCCAGC AGGGCCAGGG  
951 TGCCAAGGCT GCCAGAGCAA GGGAGCAGCA GCCGGGCAGA GGAATCCCCA  
1001 GAGGGCTATG AGAAGGAAGG ACTAGGGGAT CGTGGAGAGA AGCCTGCTTC  
1051 CCCAGCTGTG CAGCCAGATG CGGCTCTGCA GAGGCTGGCC GCTGTGCTGG  
1101 CGGGCTATGG GGTAGAGCTG CGTCAGCTGA CCCCTGAGCA GCTCTCCACA  
1151 CTCCTGACCC TGCTGCAGCT ACTGCCCAAG GGTGCAGGAA GAAATCCGGG  
1201 AGGGGTTGTA AATGTTGGAG CTGATATCAA GAAAACAATG GAGGGGCCGG  
1251 TGGAGGGCAG AGACACAGCA GAGCTTCCAG CCCGCACATC CCCCATGCCT

FIG. 3c

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

1301 GGACACCCCA CTGCCAGCCC TACCTCCAGT GAAGTCCAGC AGGTGCCAAG  
 1351 CCCTGTCTCC TCTGAGCCTC CCAAAGCTGC CAGACCCCCT GTGACACCTG  
 1401 TCCTGCTAGA GAAGAAAAGC CCACTGGGCC AGAGCCAGCC CACGGTGGCA  
 1451 GGACAGCCCT CAGCCCGCCC AGCAGCAGAG GAATATGGCT ACATCGTCAC  
 1501 TGATCAGAAG CCCCTGAGCC TGGCTGCAGG AGTGAAGCTG CTGGAGATCC  
 1551 TGGCTGAGCA TGTGCACATG TCCTCAGGCA GCTTCATCAA CATCAGTGTG  
 1601 GTGGGACCAG CCCTCACCTT CCGCATCCGG CACAATGAGC AGAACCTGTC  
 1651 TTTGGCTGAT GTGACCCAAC AAGCAGGGCT GGTGAAGTCT GAACTGGAAG  
 1701 CACAGACAGG GCTCCAAATC TTGCAGACAG GAGTGGGACA GAGGGAGGAG  
 1751 GCAGCTGCAG TCCTTCCCCA AACTGCGCAC AGCACCTCAC CCATGCGCTC  
 1801 AGTGCTGCTC ACTCTGGTGG CCCTGGCAGG TGTGGCTGGG CTGCTGGTGG  
 1851 CTCTGGCTGT GGCTCTGTGT GTGCGGCAGC ATGCGCGGCA GCAAGACAAG  
 1901 GAGCGCCTGG CAGCCCTGGG GCCTGAGGGG GCCCATGGTG ACACTACCTT  
 1951 TGAGTACCAG GACCTGTGCC GCCAGCACAT GGCCACGAAG TCCTTGTTC  
 2001 ACCGGGCAGA GGGTCCACCG GAGCCTTCAC GGGTGAGCAG TGTGTCCTCC  
 2051 CAGTTCAGCG ACGCAGCCCA GGCCAGCCCC AGCTCCCACA GCAGACCCCC  
 2101 GTCCTGGTGC GAGGAGCCGG CCAAGCCAA CATGGACATC TCCACGGGAC  
 2151 ACATGATTCT GGCATACATG GAGGATCACC TCGGAACCG GGACCGCCTT  
 2201 GCCAAGGAGT GGCAGGCCCT CTGTGCCTAC CAAGCAGAGC CAAACACCTG  
 2251 TGCCACCGCG CAGGGGGAGG GCAACATCAA AAAGAACCGG CATCCTGACT  
 2301 TCCTGCCCTA TGACCATGCC CGCATAAAAC TGAAGGTGGA GAGCAGCCCT  
 2351 TCTCGGAGCG ATTACATCAA CGCCAGCCCC ATTATTGAGC ATGACCCTCG  
 2401 GATGCCAGCC TACATAGCCA CGCAGGGCCC GCTGTCCCAT ACCATCGCAG  
 2451 ACTTCTGGCA GATGGTGTGG GAGAGCGGCT GCACCGTCAT CGTCATGCTG  
 2501 ACCCCGCTGG TGGAGGATGG TGTCAAGCAG TGTGACCGCT ACTGGCCAGA  
 2551 TGAGGGTGCC TCCCTCTACC ACGTATATGA GGTGAACCTG GTGTCGGAGC  
 2601 ACATCTGGTG CGAGGACTTT CTGGTGCGGA GCTTCTACCT GAAGAACGTG  
 2651 CAGACCCAGG AGACGCGCAC GCTCACGCAG TTCCACTTCC TCAGCTGGCC

FIG. 3d

APPROVED BY DRAFTSMAN	OG. FIG.
	CLASS SUBCLASS

866270" 66EST060

2701 GGCAGAGGGC ACACCGGCCT CCACGCGGCC CCTGCTGGAC TTCCGCAGGA  
2751 AGGTGAACAA GTGCTACCGG GGCCGCTCCT GCCCCATCAT CGTGCACTGC  
2801 AGTGATGGTG CGGGGAGGAC CGGCACCTAC ATCCTCATCG ACATGGTCCT  
2851 GAACCGCATG GCAAAAGGAG TGAAGGAGAT TGACATCGCT GCCACCCTGG  
2901 AGCATGTCCG TGACCAGCGG CCTGGCCTTG TCCGCTCTAA GGACCAGTTT  
2951 GAATTTGCCC TGACAGCCGT GCGGAGGAA GTGAATGCCA TCCTCAAGGC  
3001 CCTGCCCCAG TGAGACCCTG GGGCCCCTTG GCGGGCAGCC CAGCCTCTGT  
3051 CCCTCTTTGC CTGTGTGAGC ATCTCTGTGT ACCCACTCCT CACTGCCCCA  
3101 CCAGCCACCT CTTGGGCATG CTCAGCCCTT CCTAGAAGAG TCAGGAAGGG  
3151 AAAGCCAGAA GGGGCACGCC TGCCAGCCT CGCATGCCAG AGCCTGGGGC  
3201 ATCCCAGAGC CCAGGGCATC CCATGGGGGT GCTGCAGCCA GGAGGAGAGG  
3251 AAAGGACATG GGTAGCAATT CTACCCAGAG CTTTCTCCTG CCTACATTCC  
3301 CTGGCCTGGC TCTCCTGTAG CTCTCCTGGG GTTCTGGGAG TTCCCTGAAC  
3351 ATCTGTGTGT GTCCCCCTAT GCTCCAGTAT GGAAGAATGG GGTGGAGGGT  
3401 CGCCACACCC GGCTCCCCCT GCTTCTCAGC CCCGGGCCTG CCTCTGACTC  
3451 AACTTGGGC GCTCTGCCCT CCCTGGCCTC ACGCCAGCC TGGTCCCACC  
3501 ACCCTCCCAC CATGCGCTGC TCAACCTCTC TCCTTCTGGC GCAAGAGAAC  
3551 ATTTCTAGAA AAAACTACTT TTGTACCAGT GTGAATAAAG TTAGTGTGTT  
3601 GTCTGTGCAG CTG

FIG. 3e

# PREPROINSULINI

Exon sequences, i.e. sequences to be used in the patent are underlined and represent exon sequences.

V00565 Length: 4992 December 18, 1997 17:50 Type: N Check: 9721 ..

APPROVED	O.G.FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

365270" 66EST060

```

1  CTCGAGGGGC CTAGACATTG CCCTCCAGAG AGAGCACCCA ACACCCTCCA
51  GGCTTGACCG GCCAGGGTGT CCCCTTCCTA CTTGGAGAG AGCAGCCCCA
101 GGGCATCCTG CAGGGGGTGC TGGGACACCA GCTGGCCTTC AAGGTCTCTG
151 CCTCCCTCCA GCCACCCAC TACACGCTGC TGGGATCCTG GATCTCAGCT
201 CCCTGGCCGA CAACACTGGC AAACCTCTAC TCATCCACGA AGGCCCTCCT
251 GGGCATGGTG GTCCTTCCCA GCCTGGCAGT CTGTTCTCTCA CACACCTTGT
301 TAGTGCCAG CCCCTGAGGT TGCAGCTGGG GGTGTCTCTG AAGGGCTGTG
351 AGCCCCCAGG AAGCCCTGGG GAAGTGCCTG CTTGCCTCC CCCCggccct
401 GCCAGCGCCT GGCTCTGCCC TCCTACCTGG GCTCCCCCA TCCAGCCTCC
451 CTCCCTACAC ACTCCTCTCA AGGAGGCACC CATGTCCTCT CCAGCTGCCG
501 GGCCTCAGAG CACTGTGGCG TCCTGGGGCA GCCACCGCAT GTCCTGCTGT
551 GGCATGGCTC AGGGTGGAAA GGGCGGAAGG GAGGGGTCCT GCAGATAGCT
601 GGTGCCCCACT ACCAAACCCG CTCGGGGCAG GAGAGCCAAA GGCTGGGTGT
651 GTGCAGAGCG GCCCCGAGAG GTTCCGAGGC TGAGGCCAGG GTGGGACATA
701 GGGATGCGAG GGGCCGGGGC ACAGGATACT CCAACCTGCC TGCCCCCATG
751 GTCTCATCCT CCTGCTTCTG GGACCTCCTG ATCCTGCCCC TGGTGCTAAG
801 AGGCAGGTAA GGGGCTGCAG GCAGCAGGGC TCGGAGCCCA TGCCCCCTCA
851 CCATGGGTCA GGCTGGACCT CCAGGTGCCT GTTCTGGGGA GCTGGGAGGG
901 CCGGAGGGGT GTACCCAGG GGCTCAGCCC AGATGACACT ATGGGGGTGA
951 TGGTGTGATG GGACCTGGCC AGGAGAGGGG AGATGGGCTC CCAGAAGAGG
1001 AGTGGGGGCT GAGAGGGTGC CTGGGGGGCC AGGACGGAGC TGGGCCAGTG
1051 CACAGCTTCC CACACCTGCC CACCCCCAGA GTCCTGCCGC CACCCCCAGA
1101 TCACACGGAA GATGAGGTCC GAGTGGCCTG CTGAGGACTT GCTGCTTGTC
1151 CCCAGGTCCC CAGGTGATGC CCTCCTTCTG CCACCCTGGG GAGCTGAGGG
1201 CCTCAGCTGG GGCTGCTGTC CTAAGGCAGG GTGGGAACCTA GGCAGCCAGC
1251 AGGGAGGGGA CCCCTCCCTC ACTCCCACTC TCCACCCCC ACCACCTTGG
1301 CCCATCCATG GCGGCATCTT GGGCCATCCG GGAAGGGGA CAGGGGTCTT
1351 GGGGACAGGG GTCCGGGGAC AGGGTCCTGG GGACAGGGGT GTGGGGACAG

```

FIG. 3f



APPROVED	O.G.FIG.
	CLASS   SUBCLASS
BY	
DRAFTSMAN	

B66210" 66E3F066

1401 GGGTCTGGGG ACAGGGGTGT GGGGACAGGG GTGTGGGGAC AGGGGTCTGG  
 1451 GGACAGGGGT GTGGGGACAG GGGTCCGGGG ACAGGGGTGT GGGGACAGGG  
 1501 GTCTGGGGAC AGGGGTGTGG GGACAGGGGT GTGGGGACAG GGGTCTGGGG  
 1551 ACAGGGGTGT GGGGACAGGG GTCCTGGGGA CAGGGGTGTG GGGACAGGGG  
 1601 TGTGGGGACA GGGGTGTGGG GACAGGGGTG TGGGGACAGG GGTCTCTGGG  
 1651 ATAGGGGTGT GGGGACAGGG GTGTGGGGAC AGGGGTCCCG GGGACAGGGG  
 1701 TGTGGGGACA GGGGTGTGGG GACAGGGGTC CTGGGGACAG GGGTCTGAGG  
 1751 ACAGGGGTGT GGGCACAGGG GTCCTGGGGA CAGGGGTCCT GGGGACAGGG  
 1801 GTCCTGGGGA CAGGGGTCTG GGGACAGCAG CGCAAAGAGC CCCGCCCTGC  
 1851 AGCCTCCAGC TCTCTGGTC TAATGTGGAA AGTGGCCCAG GTGAGGGCTT  
 1901 TGCTCTCCTG GAGACATTTG CCCCCAGCTG TGAGCAGGGA CAGGTCTGGC  
 1951 CACCGGGCCC CTGGTTAAGA CTCTAATGAC CCGCTGGTCC TGAGGAAGAG  
 2001 GTGCTGACGA CCAAGGAGAT CTTCCACAG ACCCAGCACC AGGGAAATGG  
 2051 TCCGGAATT GCAGCCTCAG CCCCCAGCCA TCTGCCGACC CCCCCACCC  
 2101 GCCCTAATGG GCCAGGCGGC AGGGGTTGAC AGGTAGGGGA GATGGGCTCT  
 2151 GAGACTATAA AGCCAGCGGG GGCCCAGCAG CCTCAGCCC TCCAGGACAG  
 2201 GCTGCATCAG AAGAGGCCAT CAAGCAGGTC TGTTCGAAG GCCTTTGCGT  
 2251 CAGGTGGGCT CAGGGTTCCA GGGTGGCTGG ACCCCAGGCC CCAGCTCTGC  
 2301 AGCAGGGAGG ACGTGGCTGG GCTCGTGAAG CATGTGGGGG TGAGCCCAGG  
 2351 GGCCCCAAGG CAGGGCACCT GGCCTTCAGC CTGCCTCAGC CCTGCCTGTC  
 2401 TCCCAGATCA CTGTCCTTCT GCCATGGGCC TGTGGATGCG CCTCCTGCCC  
 2451 CTGCTGGCGC TGCTGGCCCT CTGGGGACCT GACCCAGCCG CAGCCTTTGT  
 2501 GAACCAACAC CTGTGCGGCT CACACCTGGT GGAAGCTCTC TACCTAGTGT  
 2551 GCGGGGAACG AGGCTTCTTC TACACACCCA AGACCCGCCG GGAGGCAGAG  
 2601 GACCTGCAGG GTGAGCCAAC CGCCCATTGC TGCCCCTGGC CGCCCCCAGC  
 2651 CACCCCCTGC TCCTGGCGCT CCCACCCAGC ATGGGCAGAA GGGGGCAGGA  
 2701 GGCTGCCACC CAGCAGGGGG TCAGGTGCAC TTTTTTAAAA AGAAGTTCTC  
 2751 TTGGTCACGT CCTAAAAGTG ACCAGCTCCC TGTGGCCCAG TCAGAATCTC  
 2801 AGCCTGAGGA CGGTGTTGGC TTCGGCAGCC CCGAGATACA TCAGAGGGTG  
 2851 GGCACGCTCC TCCCTCCACT CGCCCCTCAA ACAAATGCCC CGCAGCCCAT

FIG. 3g

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

000210" 0005100

2901 TTCTCCACCC TCATTGATG ACCGCAGATT CAAGTGT TTT GTTAAGTAAA  
 2951 GTCCTGGGTG ACCTGGGGTC ACAGGGTGCC CCACGCTGCC TGCCTCTGGG  
 3001 CGAACACCCC ATCACGCCCC GAGGAGGGCG TGGCTGCCTG CCTGAGTGGG  
 3051 CCAGACCCCT GTCGCCAGCC TCACGGCAGC TCCATAGTCA GGAGATGGGG  
 3101 AAGATGCTGG GGACAGGCCC TGGGGAGAAG TACTGGGATC ACCTGTTCAG  
 3151 GCTCCCACTG TGACGCTGCC CCGGGGCGGG GGAAGGAGGT GGGACATGTG  
 3201 GCGTGTGGGG CCTGTAGGTC CACACCCAGT GTGGGTGACC CTCCCTCTAA  
 3251 CCTGGGTCCA GCCC GGCTGG AGATGGGTGG GAGTGC GACC TAGGGCTGGC  
 3301 GGGCAGGCGG GCACTGTGTC TCCCTGACTG TGTCTCTCTG TGTCCCTCTG  
 3351 CCTCGCCGCT GTTCCGGAAC CTGCTCTGCG CGGCACGTCC TGGCAGTGGG  
 3401 GCAGGTGGAG CTGGGCGGGG GCCCTGGTGC AGGCAGCCTG CAGCCCTTGG  
 3451 CCCTGGAGGG GTCCCTGCAG AAGCGTGGCA TTGTGGAACA ATGCTGTACC  
 3501 AGCATCTGCT CCCTCTACCA GCTGGAGAAC TACTGCAACT AGACGCAGCC  
 3551 TGCAGGCAGC CCCACACCCG CCGCCTCCTG CACCGAGAGA GATGGAATAA  
 3601 AGCCCTTGAA CCAGCCCTGC TGTGCCGTCT GTGTGTCTTG GGGGCCCTGG  
 3651 GCCAAGCCCC ACTTCCCGGC ACTGTTGTGA GCCCCTCCCA GCTCTCTCCA  
 3701 CGCTCTCTGG GTGCCCACAG GTGCCAACGC CAGGCAGGCC CAGCATGCAG  
 3751 TGGCTCTCCC CAAAGCGGCC ATGCCTGTTG GCTGCCTGCT GCCCCACCC  
 3801 TGTGGCTCAG GGTCCAGTAT GGGAGCTTCG GGGGTCTCTG AGGGGCCAGG  
 3851 GATGGTGGGG CCACTGAGAA GTGACTCTGT CAGTAGCCGA CCTGGAGTCC  
 3901 CCAGAGACCT TGTT CAGGAA AGGGAATGAG AACATTCCAG CAATTTTCCC  
 3951 CCCACCTAGC CCTCCAGGT TCTATTTTA GAGTTATTC TGATGGAGTC  
 4001 CCTGTGGAGG GAGGAGGCTG GGCTGAGGGA GGGGGTCCTG CAGGGCGGGG  
 4051 GGCTGGGAAG GTGGGGAGAG GCTGCCGAGA GCCACCCGCT ATCCCCAGCT  
 4101 CTGGGCAGCC CCGGGACAGT CACACACCCT GGCCTCGCGG CCAAGCTGG  
 4151 CAGCCGTCTG CAGCCACAGC TTATGCCAGC CCAGGTCCAG CCAGACACCT  
 4201 GAGGGACCCA CTGGTGCCTT GGAGGAAGCA GGAGAGGTCA GATGGCACCA  
 4251 TGAGCTGGGG CAGGTGCAGG GACCGTGGCA GCACCTGGCA GGGCCTCAGA  
 4301 ACCCATGCCT TGGGCACCCC GGCCATGAGG CCCTGAGGAT TGCAGCCCAA  
 4351 GAGAAGCAGG GAACGCCAGG GCCACAGGGG CAGAGACCAG GCCAGGGTCC

FIG. 3h

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	DRAFTSMAN

FIG. 3i

4401 CTTGCGGCCC TTAGCCCACC CCCTCCCAGT AAGCAGGGGC TGCTTGGCTA  
 4451 GGCTTCCTTT TGCTACAGAC CTGCTGCTCA CCCAGAGGCC CACGGGCCCT  
 4501 AGTGACAAGG TCGTTGTGGC TCCAGGTCCT TGGGGGTCCT GACACAGAGC  
 4551 CTCTTCTGCA GCACCCCTGA GGACAGGGTG CTCCGCTGGG CACCCAGCCT  
 4601 AGTGGGCAGA CGAGAACCTA GGGGCTGCCT GGGCCTACTG TGGCCTGGGA  
 4651 GGTGAGCGGG TGACCCTAGC TACCCTGTGG CTGGGCCAGT CTGCCTGCCA  
 4701 CCCAGGCCAA ACCAATCTGC ACCTTTCCTG AGAGCTCCAC CCAGGGCTGG  
 4751 GCTGGGGATG GCTGGGCCTG GGGCTGGCAT GGGCTGTGGC TGCAGACCAC  
 4801 TGCCAGCTTG GGCCTCGAGG CCAGGAGCTC ACCCTCCAGC TGCCCCGCCT  
 4851 CCAGAGTGGG GGCCAGGGCT GGGCAGGCGG GTGGACGGCC GGACACTGGC  
 4901 CCCGGAAGAG GAGGGAGGCG GTGGCTGGGA TCGGCAGCAG CCGTCCATGG  
 4951 GAACACCCAG CCGGCCCCAC TCGCACGGGT AGAGACAGGC GC

FIG. 3i

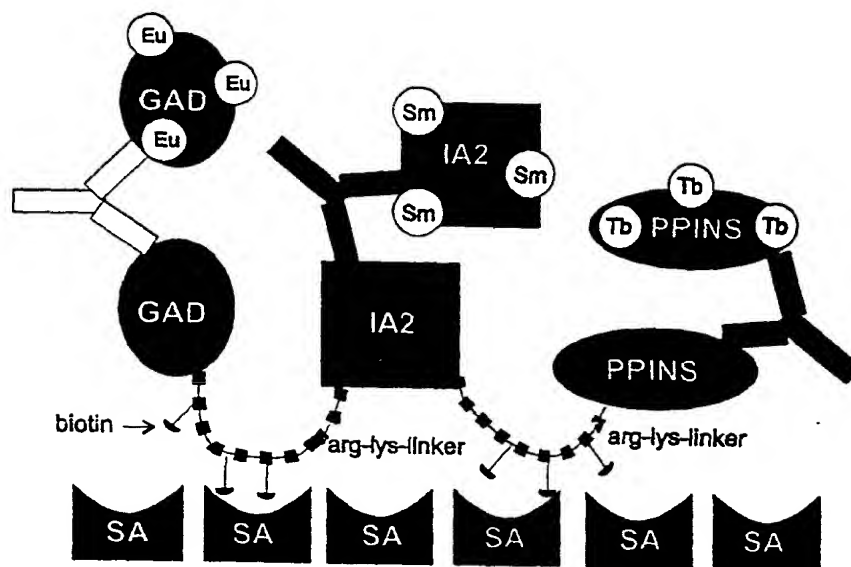


FIG. 4

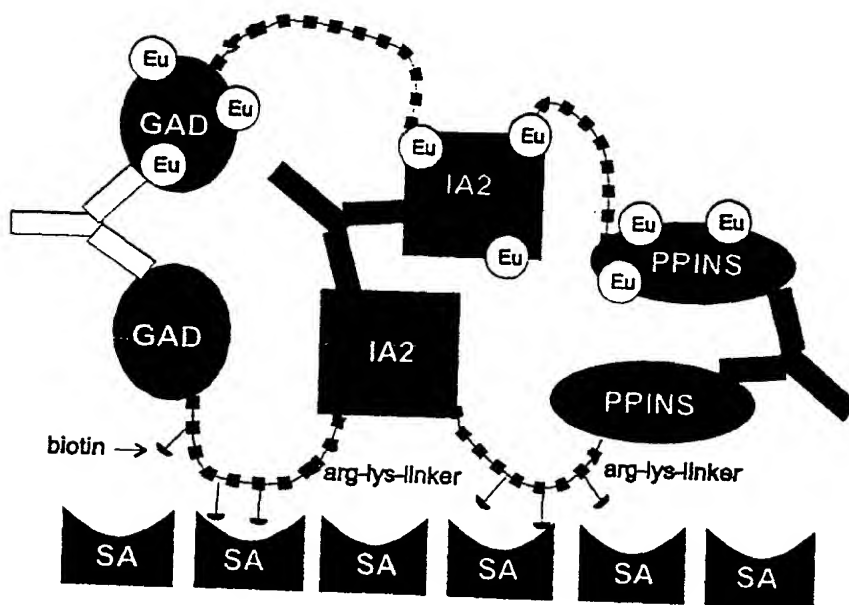


FIG. 5